

ABSTRACT

A power generating apparatus has a power generator 4 for generating AC power, a gas turbine engine 2 for driving the power generator 4, and an inverter device 5 for converting the AC power into commercial AC power. The power generating apparatus includes an interconnection switch S_1 for connecting an output of the inverter device 5 with a commercial AC power supply system, a first voltage detector 46 for detecting a DC power supply voltage V_{dc-in} of the inverter device 5, and a second voltage detector 33, 45 for detecting a full-wave rectification voltage of the commercial AC power supply system. The power generating apparatus also includes an interconnection control part 18 for closing the interconnection switch S_1 when the DC power supply voltage of the inverter device 5 exceeds the full-wave rectification voltage of the commercial AC power supply system.